AIMXp Short Form TASK GROUP INSTRUCTION

09-Mar-2011 1357

AIMXp 19.1.3.1 17 August 2007 ICN: 4682011769 KeyOp: S16

TGI NO:	COMPONENT NAME: [redacted] DRY AIR SYS	TYPE: TCG	PHASE: S	REPEAT: 0	CHG/VER: 1 / 3
SHIP/HULL NO: SSN 769	SHIP/HULL NAME: USS TOLEDO	PROJECT: 3050		SYSTEM: 04401	PLANT ID:

CU PHASE TITLE: STAGE [redacted] DRY AIR SYSTEM

PREPARING ACTIVITY:	STATUS: APP	WORKING STATUS: CPL

PREPARED BY: DEBORAH BLUNT	CODE: 270.1	PHONE: (207) 438-3166	DATE: 2/16/2011
APPROVED BY: JOSIAH ROJAS	CODE: 270.5	PHONE: (207) 438-3561	DATE: 2/24/2011
CONCURRED BY:	CODE:	PHONE:	DATE:

REASON FOR WORK/NEED FOR CHANGE:

JCN:

SPECIAL REQUIREMENTS:
Cleanliness Requirements

CU PHASE DESCRIPTION:
IN SHOP STAGING AND TESTING OF EQUIPMENT NEEDED FOR PROVIDING A TEMPORARY SYSTEM SUPPLYING 100 PSIG DRY, OIL FREE, FILTERED AIR FOR DRYING [redacted] PIPING

WAF REQD: YES	WAF REQD: NO	WAF SER. NO/TWD LINE ITEM NO.
☐	☒	N/A

*SIGN D. Boyd	CODE/BADGE: 42179	DATE: 3-9-11
**SIGN N/A	CODE/BADGE: N/A	DATE: N/A

ZONE MANAGER:	ZONE:	COMPARTMENT:	LEVEL:	FRAME:	SIDE: U

JOB SUMMARY ID:	TOT MAN HR.: 20	TOT DUR:	TOT JML COST:	PLANNING ACCEPTANCE:

WORK CERTIFICATION SIGNATURES:	DLs				
COMPLETION/QA WORK REVIEW: [signature]	BADGE NO: 48382	SHOP/CODE: 99p	PHONE: 1677	DATE: 3/12/11
RECORDS REVIEW: D. Boyd	BADGE NO: 42179	SHOP/CODE: 322	PHONE: 2239	DATE: 3-15-11

[redacted]

4682011769S16

MASTER

TGI NO:	COMPONENT NAME: DRY AIR SYS	TYPE: TCG	PHASE: S	REPEAT: 0	CHG/VER: 1 / 3
SHIP/HULL NO: SSN 769	SHIP/HULL NAME: USS TOLEDO	PROJECT: 3050		SYSTEM: 04401	PLANT ID:
CU PHASE TITLE: STAGE DRY AIR SYSTEM					

TASK NAME / TASK DESCRIPTION	SHOP/ TSD	TS	SF WC	CREW #	MHRS	RWRK
STAGE PA SYS STAGE AND MAKE READY FOR INSTALLATION THOSE COMPONENTS NEEDED FOR A TEMPORARY LOW PRESSURE DRY, OIL FREE, FILTERED AIR SYSTEM FOR DRYING THE	99 / T3	TP		2	20	N

MATERIAL LIST

ITEM NO.	PC NO.	REF NO.	M / C	DESCRIPTION	STOCK NUMBER	GENERIC MATL TYPE	LVL	QA	HAZ MAT	DOC NO.	QTY REQD/ UNIT	QTY USED/ UNIT
001			C	FILTER ELEMENT,FILTER ELEMENT, 2.7 IN DIA X 10 IN LG, 3 MICRON, FIBER, FILTERITE P/N: DFN 3-10-AN. SOURCE "FIBERSOURCE.COM"	4330	VARIOUS	NA	4	9	10470140	3 EA	

ATTACHMENT LIST

TITLE	FILE NAME
TSM CHP 309 - STAGE	TSM CHP 309 - Stage.doc

[redacted]

SSN 688 Class Temporary Systems Manual

Chapter 309

[redacted]ry Air System

Section: 309 - Stage

Instructions to Test and Stage a system that supplies 100 psig dry, oil free, filtered air for [redacted]

Invoking Job Order: 4682011769 S16

Temporary Systems Engineering:

Evan Gray	270.3	207-438-3263	02/17/2011
ENGINEER	CODE	PHONE	DATE
Wilber Heath	270.3	207-438-3101	02/17/2011
SUPERVISOR APPROVAL	CODE	PHONE	DATE

Concurrences:

Chett Forbus	260.1	207-438-3406	02/17/2011
TECHNICAL CODE REPRESENTATIVE	CODE	PHONE	DATE

1. **REFERENCES:**

Ref. No.	Document/Drawing Number	Document/Drawing Title
TGI	See the TGI References	See the TGI References
1	PI 0516-903-103	Temporary Shore Service
2	UIPI 5050-450	[redacted] Cleanliness

2. **GENERAL REQUIREMENTS:**

2.1. Temporary Service Pipework is the lead shop.

2.2. Systems Cleanliness downstream and including filter (F-3) of F-2 is [redacted] Clean" per Reference 2 (UIPI 450). The system cleanliness upstream of F-2 is free of loose contamination.

3. **PROCEDURE:**

NOTE

Working on pressurized lines or uncoupling Camlock type quick disconnects under pressure will create a hazardous condition and serious injury may occur.

3.1. Ensure hoses have a service life throughout the availability.

3.2. Verify that a new fiber filter element (F-3) has been installed in F-2. Verify that the CRES mesh filter element (F-4) has been cleaned per Reference 2. Verify that filter elements (F-3 & F-4) are installed in filter housings F-2 per Figure 3.

Filter elements replaced/cleaned and installed in accordance with Figure 3.

Signature _____ Badge No. _____ Date _____

3.3. Pressure test all components and hoses, except F-3 & F-4, to 180 PSIG. Hold for 5 minutes. No leakage or permanent deformation allowed. Reduce pressure to 120 PSIG and cycle valves several times to assure proper operation. Test the tightness of valve seats by shutting each valve, bleeding downstream pressure and checking for leakage, no leakage allowed.

NOTE

A pressure drop of 5 PSI in 5 minutes, from an initial pressure of 180 PSI, is an acceptable leakage rate for Air Manifolds (F-2).

3.4. When using sealant (F-12) wait the required cure time before pressurizing. Sealant may be used on threaded connections downstream of Filter F-3 as necessary. Verify that any sealant used on this system is approved for use on the Qualified Products List (QPL).

Not needed. Only steps necessary are to re-send labels for manifold.
AL2 49218 3/10/15

3. **PROCEDURE: (cont'd)**

3.5. If hydrostatic testing is done, connect all components and hose upstream of F-2 to a compressed air source to dry.

3.5.1. Compressed air must be reduced to 10 PSIG unless discharged to an area where personal contact is impossible.

3.5.2. Filter Air with a ten-micron or finer fiber filter upstream of an 80-micron or finer corrosion resistant metal edge-type to edge-type or mesh-type filter (element).

3.5.3. Blow down all components and hoses using air. Continue blow down for 5 minutes after no water droplets exit.

3.6. Fit caps or seals to each opening immediately after the cleaning and drying operation. Keep all openings sealed or capped except when access is necessary. Use metallic plugs, caps, and blanks for sealing openings. Do not use plastic caps, rags, wooden plugs, cardboard, or tape. Sealing tape may be used to secure caps in place, but do not apply tape to inside surfaces of piping. Do not use bags as a temporary seal over the ends of pipe during shipping or transit, or on piping for shipboard installation. Attach [redacted] Cleanliness Controls Established" stickers (PNSY 9210/95 (6-94)) at or near hardware openings in a visible location after cleanliness covers are installed. *

4. **LABELING:**

4.1. ~~Label~~ quick disconnects. Locate per Figures 1. Emboss labels on plastic or aluminum. Attached with wire, plastic ties or ~~hand wheel nut~~.

4.1.1. Emboss "Dry filtered, Oil Free, 100 PSIG Air for X-56 [redacted] rying. Supply valve is TALP-8." Where "TALP-8" is the corresponding low pressure air manifold connection. *

⊗ 4.1.2. Label the following. Locate per Figure 1. Emboss labels on plastic or aluminum. ~~Attach labels with wire, plastic ties or hand wheel nut.~~ *

"TALP-8: Supply for [redacted] Air Drying."

"TALP-310: SUPPLY -- 100 PSI AIR."

"TALP-320: SUPPLY -- 100 PSI AIR."

"TALP-330: SUPPLY -- 100 PSI AIR."

"TALP-340: SUPPLY -- 100 PSI AIR."

Gauge identification tags: TGA-310.

* Reprint labels and send to 769 boat work site. connecting labels to manifold to be done ~~on-site~~ on site
9L2 49218 3/10/11 9L2 49218 3/10/11

Parts List			
Pc No.	**Qty.**	**Description: Size, Material, Part/Stock Number**	**Remarks**
F-1	1	Temporary Dry Air Manifold	
F-2	1	Air manifold, 4 (11/4") valves, dual filter elements.	Available Temporary Services Shop (Bldg 299)
F-3	1	Filter element, 3 micron, fiber, FilteRite: DFN 3-10-AN	Part of F-2
F-4	1	Filter element, 70 micron, mesh, CRES, FilteRite: PWC 70-10-A-DOE	Part of F-2
F-5	2	Coupling, Quick Disconnect, 3/8" X 1/2" NPT, Hansen 3-R26 or Equal	
F-6	2	Plug, Quick Disconnect, 3/8" X 1/2", NPTF, Hansen 3-L26G or Equal	
F-7	1	Reducing Bushing, 1-1/4" X 1/2", NPTF	
F-8	As Req'd	Adapter, 1-1/4" X 1-1/4" NPTF or hose shank, copper alloy, Camlock 633-A/E-1.25 or equal	Available Temporary Services Shop (Bldg 299)
F-9	2	Connector, 1/2" Tubing Barbed X 1/2" NPT, Brass, Parker 8-8B2HF or Equal	
F-10	2	Clamp, Hose, 1/2" Min. ID, CRES	
F-11	1	Nipple, 1/2" X1-1/2" Long, Brass or Equal	
F-12	1	Sealant, Loctite Grade A, Red, Stk # 8030-LL-L00-9441	Allow minimum cure time before pressurizing sealed joint
H-1	150'	Hose, 1/2" ID, Reinforced, PVC, Nylabraid or Equal	

Figure 1

[redacted] Dry Air Manifold [redacted]

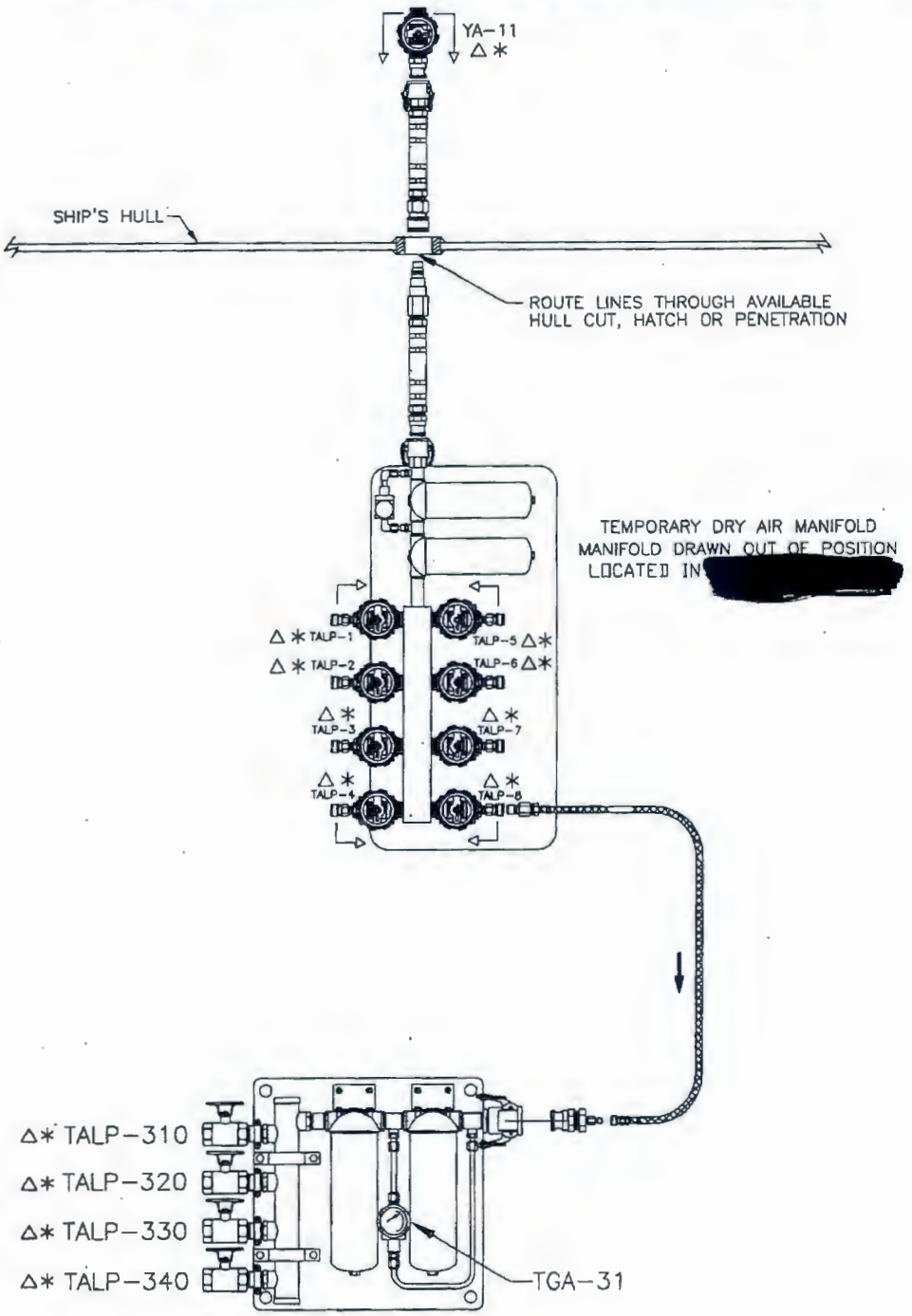
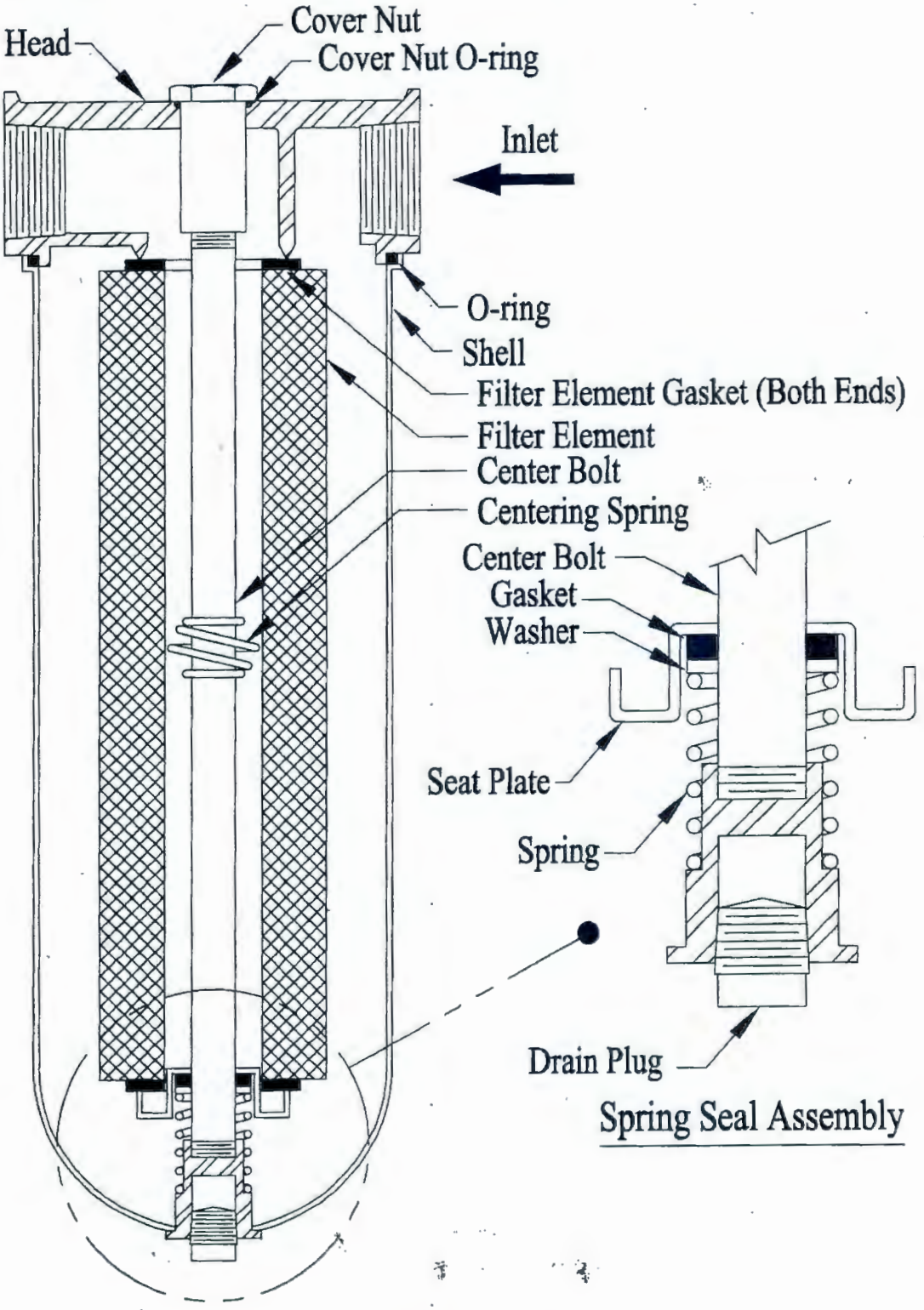


Figure 2

FilteRite-LMO Seal Series Filter Housing



AIMXp Short Form TASK GROUP INSTRUCTION

22-Feb-2011 0734

AIMXp 19.1.3.1 17 August 2007 ICN: 4682011769 KeyOp: S16

TGI NO:	COMPONENT NAME: [redacted] DRY AIR SYS	TYPE: TCG	PHASE: S	REPEAT: 0	CHG/VER: 0 / 1
SHIP/HULL NO: SSN 769	SHIP/HULL NAME: USS TOLEDO	PROJECT: 3050		SYSTEM: 04401	PLANT ID:

CU PHASE TITLE: STAGE [redacted] DRY AIR SYSTEM

PREPARING ACTIVITY:	STATUS: APP	WORKING STATUS:

PREPARED BY: DEBORAH BLUNT	CODE: 270.1	PHONE: (207) 438-3166	DATE: 2/16/2011
APPROVED BY: PAUL REGIS	CODE: 270.3	PHONE: (207) 438-3158	DATE: 2/18/2011
CONCURRED BY:	CODE:	PHONE:	DATE:

REASON FOR WORK/NEED FOR CHANGE:

JCN:

SPECIAL REQUIREMENTS:
Cleanliness Requirements

CU PHASE DESCRIPTION:
IN SHOP STAGING AND TESTING OF EQUIPMENT NEEDED FOR PROVIDING A TEMPORARY SYSTEM SUPPLYING 100 PSIG DRY, OIL FREE, FILTERED AIR FOR DRYING [redacted] PIPING

WAF REQD: YES ☐	NO ☒	WAF SER. NO/TWD LINE ITEM NO. N/A
*SIGN D. Boyd	CODE/BADGE: 42179	DATE: 2-22-11
**SIGN N/A	CODE/BADGE: N/A	DATE: N/A

ZONE MANAGER:	ZONE:	COMPARTMENT:	LEVEL:	FRAME:	SIDE: U

JOB SUMMARY ID:	TOT MAN HR.: 20	TOT DUR:	TOT JML COST:	PLANNING ACCEPTANCE:

WORK CERTIFICATION SIGNATURES:	DLs				
COMPLETION OF WORK REVIEW:	BADGE NO: 4192	SHOP/CODE: X-99	PHONE: 1343	DATE: 3/7/11
RECORDS REVIEW:	BADGE NO:	SHOP/CODE:	PHONE:	DATE:

4682011769S16

[redacted]

MASTER

ENCLOSURE (1)

BRIEFING/HISTORY/TURNOVER RECORD

BRIEFING/HISTORY/TURNOVER RECORD
NAVSHIPYD PTSMH 4730/243 (REV 12-06)

Required by PRODEPT INST 4730.15

BRIEFING RECORD

1. TWD	2. JO
[redacted] DRY AIR SYS. TCG. S. O	46820117 69 S16

TYPICAL BRIEFING ATTRIBUTES

REQUIRES IN-DEPTH DISCUSSION

- ✓ WAF stamp authorized?
- ✓ Partial WAF controls reviewed?
- ✓ Component location identified?
- ✓ TWD work instructions clear?
- ✓ PPE requirements discussed?
- ✓ Shipboard cleanliness/collateral damage avoidance discussed?
- ✓ SUBSAFE Controls discussed (if applicable)?

SOFTWARE

- When and how to complete QA forms?
- Plans/references?
- History/turnover record?
- Signature requirements clear?
- Special controls/sequence of work?
- Review DF's

GENERAL

- Assist trades/codes needed/notified?
- Lessons learned reviewed?
- Worksite PMG adequate?
- Worksite visited and Sat?
- Mechanic has correct/valid qualification(s) in ATMS
- Mechanic participates in an interactive briefing with Supervisor
- Discuss step tracking process (O's/X's)

RADIOLOGICAL CONTROLS

- TWD contains ®?
- Personnel exposure status?
- Exposure reduction techniques discussed, time, distance and shielding?

MATERIAL CONTROL/CLEANLINESS

- Discuss need to ensure material matches "M" sheet
- TWD cleanliness requirements?
- Accountability Controls?
- Proper use of QA-2 tags

SAFETY REQUIREMENTS

- Medical stressors current?
- Haz waste/material controls?
- Special safety requirements?
- JSA plan discussed?

SUBSAFE CONTROLS

- Copy of REC in package?
- Scope of work = Scope of REC?
- Work released by WP?
- DL's/DF's reviewed by WP?

3. SIGNATURE BELOW INDICATES THAT AN IN-DEPTH DISCUSSION AND INTERACTIVE BRIEFING WAS COMPLETED SATISFACTORILY. MECHANIC READY TO BEGIN WORK IAW ATTRIBUTES ABOVE. DISCUSS KEY POINTS AND LIST EXPECTATIONS ON JOB HISTORY RECORD. SUPV(S) AND MECH(S) SIGN, BN & DATE. CHECK BLOCK WHEN REDUCED SCOPE BRIEFING IS UTILIZED.

CERTIFICATION of BRIEFING

SUPERVISOR	BADGE	DATE	Reduced Scope	MECHANIC	BADGE	DATE
[redacted]	41192	3/26/11		[redacted]	49382	2-26-11
[redacted]	48386	3/10/11				

Note: Supervisor signature also verifies that positive identification of the ship, compartment, system and component to be worked has been discussed and the mechanic acknowledges awareness of ship, compartment, system and component to be worked.

[redacted]

PRODEPT INST
4730.15H
02 Mar 2010

BRIEFING/HISTORY/TURNOVER RECORD

BRIEFING/HISTORY/TURNOVER RECORD
NAVSHIPYD PTSMH 4730/243 (REV 12-06)

[redacted] 468207 MD
4682011 769 516

Required by PRODEPT INST 4730.15

JOB HISTORY

SUPERVISOR/MECHANIC RECORD WORK EXPECTATIONS.

DATE/SHIFT	MECHANIC DESCRIBES WORK ACCOMPLISHED, PROBLEMS ENCOUNTERED AND WORK TO BE DONE NEXT. SIGN (INCLUDE BADGE NUMBER) AND DATE EACH ENTRY. BRIEFLY DESCRIBE ANY LESSONS LEARNED.	SIGN/BADGE DATE
2/26/11 1st	STAGE & TEST SYSTEM PER TGI. MAINT- [redacted] CLEAN	[redacted] 2/26/11
2-26-11 1st	Tested and Stayed all components Per TGI	
	Maint Cleanness	[redacted] 49385 2-25-11
3/10/11 AM	need to reprint labels per para 4.1.2. and send to point Loma	[redacted] 48386 3/10/11
3/10/11 1st	Reprinted tags+labels per para 4.1.2 put in care package and sent to pt. Loma. SAT	[redacted] 49437 3/10/11

NOTE: Each mechanics signature also verifies the ship, compartment, system and component has been positively identified prior to commencing the work.

[redacted]